

MONTGOMERY COUNTY MARYLAND DEPARTMENT OF TRANSPORTATION

ANNUAL SNOW SUMMIT

10:00 AM November 2, 2016

Gaithersburg Depot 17000 Crabbs Branch Way Gaithersburg, Maryland



Opening Remarks

- MCDOT
- County Executive Isiah Leggett
- MCDOT Director Al Roshdieh

Today's Presenters

- Richard Dorsey Highway Services
- Dan Hibbert Transit Services
- Jose Thommana Parking Services
- Venu Nemani- Traffic Engineering
- Sonny Segal Director, Department
 of Technology Services



Snow Summit Objectives



Discuss MCDOT's snow operations plan

Establish our priorities

 Share information with our partners, contractors, elected officials and the publics

Special Thanks



- City of Gaithersburg
- City of Rockville
- Montgomery County Public Schools
- Maryland National Capital Park and Planning Commission
- Department of General Services
- Department of Homeland Security
- Department of Technology Services
- Office of Management and Budget
- Office of Procurement
- Department of Finance
- Montgomery County Police
- Montgomery County Fire & Rescue

Maryland State Highway Administration

Thomas S. Fountain III

Assistant District Engineer Maintenance (301) 513-7305

Gaithersburg Maintenance Facility

Gregory A. Edwards

Resident Maintenance Engineer (301) 948-2477

Tony Octavien

Facility Maintenance Supervisor I (301) 948-2477

Fairland Maintenance Facility

Robert Murry

Assistant Resident Maintenance Engineer (301) 572-5166

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Facility Maintenance Supervisor I (301) 572-5166



MCDOT Goals During A Storm



Ensure Public Safety

 Get our 1.1 million residents back to work, school and other activities

Coordinated Departmental Response

Minimize the effects of storm's economic impact

Effectively communicate to all stakeholders

Our Transportation System

MCDOT

Highway Services

- 5,256 total lane miles
- 602 lane miles of Emergency Routes
- 4,157 lane miles of Residential Routes
- 217 Unique Plow Routes
- 350 miles of sidewalks & bike paths

Ride On Transit System

- 78 Transit Routes, 5,300 Bus Stops, 343 Buses
- Ridership
 - 85,000 Daily
 - 27 million riders annually

Parking System

- 21,889 Parking Spaces
- Provides safe place to park during snow emergencies
- Access to businesses and transit options

For MCDOT, Snow Removal is a Team Effort



Highway Services: Timely snow and ice control2

Transit: Keep our buses moving?

Parking: Help residents get their cars off the street

Traffic: Actively manage traffic to enhance traffic flow





DIVISION OF HIGHWAY SERVICES

Winter Operations Plan



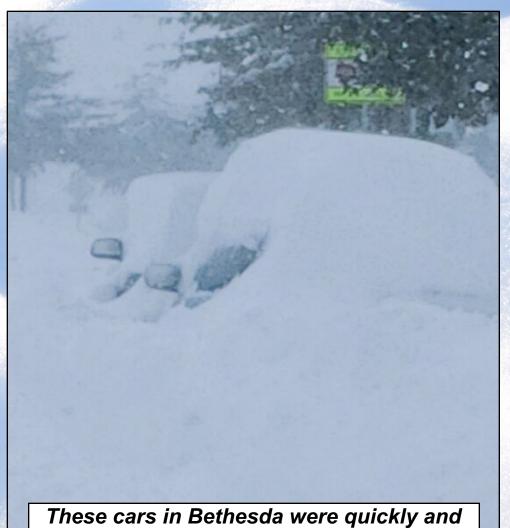
Storm Readiness Plan



StormPreparation

Resource Plan

New Initiatives



completely covered with falling snow

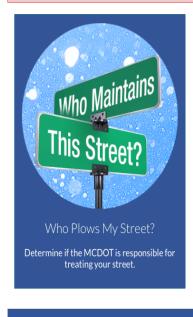
Revised Snow Portal



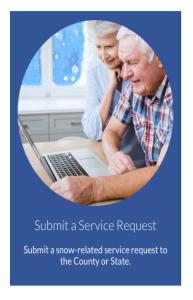
Montgomery County's Winter Storm Information Portal

Montgomery County Snow Emergency Plan is currently in effect.

The County is currently treating and plowing Emergency Routes and Primary Neighborhood Routes.







Latest Delays, Closings, and Information Updates

MCDOT's Snow Response Plan Overview

Winter Weather Information



County News

The latest information from Montgomery County Public Information



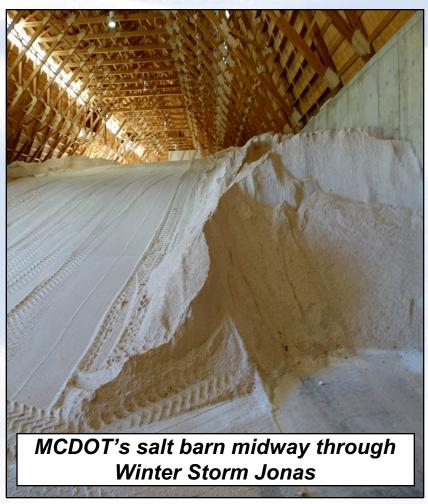
Rideon Delays or Changes

Find out about delays or changes on the County's Ride On bus

Salt Management Plan

- Updated Salt Plan
 - Mapping of salt vulnerable areas
 - Protection of salt storage facilities
 - Improve record keeping
 - Identification of snow dump sites
- Roads pre-treated with salt brine
 - Brine uses about 2 lbs. per lane mile to manufacture and use.
 - Salt uses 300 1000 lbs.
 per lane mile to spread.
- A salt brine test program is being developed





Resource and Equipment Plan

- 225-250 County staff
- 175 pieces of County equipment
- Supplemental resources as needed

 Tiered response that adjusts with storm



Storm Operations Center (SOC)

MCD0T

- Gather storm-related intelligence
- Management of resources
- Observing real-time weather and pavement conditions
- Coordinate with Emergency Operation Center
- Verify, validate, and disseminate information to other entities
- Interface with public, website, social media, interviews, customer service



Manage road closures

Storm Analysis and Forecasting



Weather forecasting is provided by:

- AccuWeather
- National Weather Service
- EarthNetworks

Pavement Forecasting

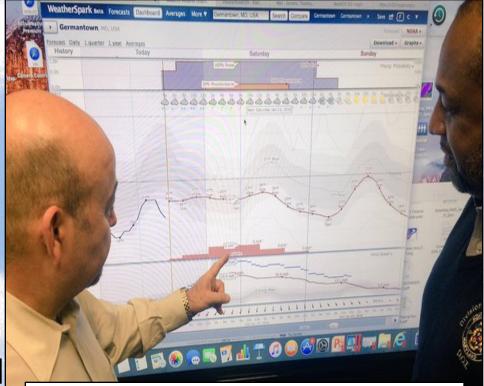
- Use of RWIS information
- Alerts are sent to smart devices
- Allows for informed decisions
- Relevant to mobilization & demobilization
- Combination of weather & pavement forecasting provide for a effective cost-efficient operation

Blizza	rd of	January 22-2		
Snowfall Tota		Snowfall Total	Page :	LOI
Glengary WV	42.0"	All wn PA	31.9"	Ne
Shepherdstown WV	40.5"			//
North Patomac MD	38.5"	38.5 inches Potomac		Me
Greencastle PA	38.3"			
Redhouse MD	38.0"	Ne rk City – JFK	30.5"	l Ge
Cascade MD	37.5"	Harris urg PA	30.2"	Pin
Mechanicsburg PA	36.9"	Manassas VA	30.1"	He
Bluemont VA	36.0"	Martinsburg WV	30.0"	Eas
Oakland MD	36.0"	Earlys ille VA	30.0"	Fai
Harman WV	36.0"	Op	30.0"	NY
Somerset PA	35.8"	35.2 inche		1
Gaithersburg MD	35.2"	55.2 IIICII	es	Ch
Point of Rocks MD	35.2"	Gaithersh	ourg	1
Berryville VA	35.0"	Mit. n PA	30.0"	No
Rippon WV	35.0"	Hicks\ lle NY	29.6"	Kir
Bayard WV	34.5"	Whitehouse NJ	29.6"	Cai
Tunnelton WV	34.0"	Washington – IAD	29.3"	Ba
Frostburg MD	34.0"	Baltimore MD – BWI	29.2"	Un
York Springs PA	34.0"	WilliamsburgNY	29.0"	Vie
Jackson Heights NY	34.0"	Hershey PA	29.0"	Da
Scarboro MD	33.5"	Columbia MD	28.8"	Bri
Bel Air MD	33.0"	Roselle NJ	28.3"	Cra
Upper Strasburg PA	33.0"	Flemington NJ	28.3"	Wa
Morris Plains NJ	33.0"	Malvern PA	28.2"	Lar
Reistertown MD	32.1"	Newark NJ	28.1"	Ne
Bull Run VA	32.1"	Champion PA	28.0"	Un
Chambersburg PA	32.0"	Bound Brook NJ	28.0"	Pot

Storm Profile Development

MCD0T

- A profile is developed for each storm:
 - Type of precipitation
 - Start and end times
 - Expected accumulation
 - Wind velocity and direction
 - Ambient & pavement temperatures
- Equipment determined
- Deployment established
- Operations are determined
- Clean-up profile is estimated
- "Actual conditions" are plotted atop of "forecasted conditions"

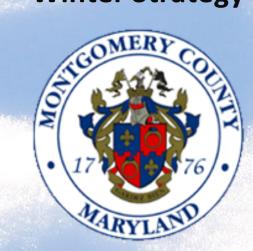


Director Roshdieh and Chief Dorsey develop a real time storm profile during the height of Winter Storm Jonas



DIVISION OF TRANSIT SERVICES

Winter Strategy





Montgomery County Department of Transportation Transit Services Division







WE'RE IN THIS TOGETHER



Montgomery County Department of Transportation Transit Services Division



New Initiative:

- Individual stops with 15+ passengers = 500 locations
- This will clear snow for 80% of riders→ 776 (last year)

+ 500 (this year)

1, 276 Locations

Key Points:

- Adaptable schedule based on weather prediction
- Provided service later than other any transit systems in the area
- Clear Transit Centers at Westfield Montgomery Mall, White Oak, Germantown, Lakeforest, Traville
- 40% increase in cleared bus stops from last year



Montgomery County Department of Transportation Transit Services Division





"Thanks for clearing the snow and coming by. We were able to get out and have a family outing instead of cabin fever!"



OF OF PARKING MANAGEMENT SNOW AND ICE CONTROL





Overview & Scope

- 21,889 Parking Spaces [4 PLDs]
 - 2,494 (11%) [On-Street]
 - 1,719 (8%) [22 Surface Lots]
 - 17,676 (81%) [20 Garages]
- Goals
 - Safety: Keep facilities open and safe 24/7 for all users
 - Coordination & Support

Facilities & Resources



- Parking Lot Districts (PLDs)
 - Bethesda , Silver Spring, Wheaton & Montgomery Hills
 - 20 Multi-level Garages
 - 22 Surface Lots

- Areas outside PLDs
 - 7 Park & Ride lots
 - Tech Rd, Briggs Chaney, Green Castle, Burtonsville, Colesville, Germantown, Damascus, Traville, White Oak

Operations



Confined Operations

Limit use of corrosive treatment in Garages

Loading and hauling from Garage rooftops

Multi-Modal Focus

Key Take-Aways



- Encourage residents to park off-street
- During County declared snow-emergencies
 - Free parking allowed in Garages and Lots
 - Longer term (more than 24 hr) parking enforcement relaxed
- Keep Parking Safety in mind and #PARKSMART
 - Lock your vehicles & take valuable with you
- Electric Vehicle (EV) Charging Stations
 - 24 EV Charging Stations
 - 4 hr Limit, vehicle must be plugged in



In addition to traditional media, use Social Media to get regular updates

MG201











DIVISION OF TRAFFIC ENGINEERING & OPERATIONS



Transportation Management Center



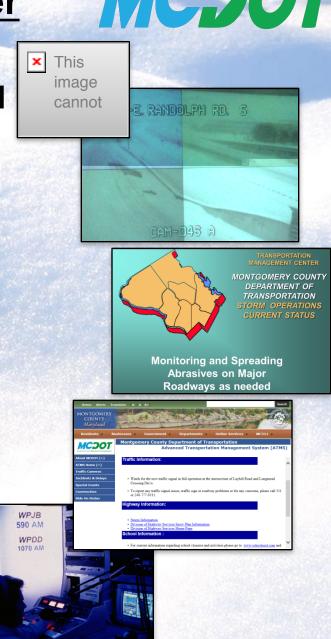
- Activate TMC 24/7
- Coordinate Traffic and Transit operations & EMG
- Roadway traffic info to DHS & Transit
- Respond to traffic signal & sign damage
- Coordinate traffic control at signalized locations
- DHS RWIS installed at various traffic signals
- Coordinate with MCPS on real time adjustment of school flashers



Transportation Management Center

MCDOT

- Work with Cable Office, take over CCM Chl 6 - broadcast cameras and info about snow operations.
- Work with PIOs to provide snow operation status, school and Govt. closings, cancelations, and shelter info.
- Update TMC webpages.
- Create audio messages Chl 6 (SAP) and AM radio transmitter stations.
- Update news traffic reporters.



Travelers Advisory Radio System

Thank You



